

Clean Version of Claims

All pending claims, including changes made, are as follows:

C1

1 1. (Twice Amended) A wireless mobile phone comprising:
2 a palm-sized body;
3 a transceiver for transmitting and receiving signals, disposed inside said palm-
4 sized body;
5 a plurality of sensors to sense and output blood flow rate data of a user holding
6 the wireless mobile phone with one of the user's hands, with the sensors being
7 distributively disposed at a plurality of locations of the palm-sized body to facilitate
8 having at least a subset of said sensors to contact the holder user's holding hand
9 including at least one of the holding hand's finger and palm; and
10 means disposed within said palm-sized body and coupled to the sensors to infer
11 a manner the wireless mobile phone is being held by one of the user's hands, as
12 characterized by the sensor contact configuration of the holding hand's finger/palm, and
13 to generate a heart rate of the user using a subset of the blood flow rate data output by
14 said sensors, based at least in part on the inferred hand holding manner characterized
15 by the sensor contact configuration of the holding hand's finger/palm.

C2

1 2. (Once Amended) The wireless mobile phone of claim 1, wherein the sensors
2 comprise a first and a second subset disposed along a first and a second edge of said
3 palm-sized body of said wireless mobile phone to allow different subsets of said sensors
4 ~~to be primarily relied upon for sensing data for different potential hand holding manners~~
5 of said wireless mobile phone.

- C2 1 3. (Once Amended) The wireless mobile phone of claim 2, wherein said subsets
2 comprise a first and a second subset to be primarily relied upon for sensing data for a
3 left hand and a right hand holding manner.
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- 1 4. (No Change) The wireless mobile phone of claim 1, wherein said means
2 comprises means to compare sensing data being received from said sensors against a
3 plurality of reference characteristic profiles.

- 1 5. (No Change) The wireless mobile phone of claim 1, wherein said means
2 comprises means to select a set of weights to be applied to normalize sensing data
3 received from said sensors.

- 1 6. (No Change) The wireless mobile phone of claim 1, wherein said means
2 comprises means to request a user to confirm a generated heart rate in a calibration
3 mode of operation.
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- C3 1 7. (Once Amended) The wireless mobile phone of claim 1, wherein said means
2 comprises a plurality of programming instructions designed to perform said inference of
3 a hand holding manner of the wireless mobile phone and said generation of a heart rate
4 of the user.
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8. (Once Amended) The wireless mobile phone of claim 1, wherein said means comprises circuitry for performing said inference of a hand holding manner of the wireless mobile phone and said generation of a heart rate of the user.

9. (Twice Amended) A personal digital assistant (PDA) comprising:
a palm-sized body;
memory disposed within said palm-sized body;
a processor disposed with said palm-sized body and coupled to the memory;
a plurality of sensors to sense and output blood flow rate data of a user holding the PDA with one of the user's hands, with the sensors being distributively disposed at a plurality of locations of the palm-sized body to facilitate having at least a subset of said sensors to contact the holder user's holding hand including at least one of the holding hand's finger and palm; and
means disposed within said palm-sized body and coupled to the sensors to infer a manner of the PDA is being held by one of the user's hand, as characterized by the sensor contact configuration of the holding hand's finger/palm, and to generate a heart rate of the user using a subset of the blood flow rate data output by said sensors, based at least in part on the inferred hand holding manner characterized by the holding hand's finger/palm configuration characterized by the sensor contact configuration of the holding hand's finger/palm.

~~10. (Once Amended) The PDA of claim 9, wherein the sensors comprise a first and a second subset disposed along a first and a second edge of said palm-sized body of said~~

- 3 PDA to allow different subsets of said sensors to be primarily relied upon for sensing
4 data for different potential hand holding manners of said PDA.

C3

- 1 11. (Once Amended) The PDA of claim 10, wherein said subsets comprise a first and
2 a second subset to be primarily relied upon for sensing data for a left hand and a right
3 hand holding manner.

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- 1 12. (No Change) The PDA of claim 9, wherein said means comprises means to
2 compare sensing data being received from said sensors against a plurality of reference
3 characteristic profiles.

- 1 13. (No Change) The PDA of claim 9, wherein said means comprises means to
2 select a set of weights to be applied to normalize sensing data received from said
3 sensors.

- 1 14. (No Change) The PDA of claim 9, wherein said means comprises means to
2 request a user to confirm a generated heart rate in a calibration mode of operation.

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- 1 15. (Once Amended) The PDA of claim 9, wherein said means comprises a plurality
2 of programming instructions designed to perform said inference of a hand holding
3 manner of the PDA and said generation of a heart rate of the user.

C4

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1 16. (Once Amended) The PDA of claim 9, wherein said means comprises circuitry for
2 performing said inference of a hand holding manner of the PDA and said generation of
3 a heart rate of the user.

CY 1 17. (Twice Amended) A mobile client device comprising:
2 a palm-sized body;
3 a plurality of sensors to sense and output blood flow rate data of a user holding
4 the mobile client device with one of the user's hands, with the sensors being
5 distributively disposed at a plurality of locations of the palm-sized body to facilitate
6 having at least a subset of said sensors to be in contact with the holder user's holding
7 hand including at least one of the holding hand's finger and palm; and
8 means disposed within said palm-sized body and coupled to the sensors to infer
9 a manner the mobile client device is being held by one of the user's hands, as
10 characterized by the sensor contact configuration of the holding hand's finger/palm, and
11 to generate a heart rate of the user using a subset of the blood flow rate data output by
12 said sensors, based at least in part on the inferred hand holding manner characterized
13 by the sensor contact configuration of the holding hand's finger/palm.

1 18. (Once Amended) The mobile client device of claim 17, wherein the sensors
2 comprise a first and a second subset disposed along a first and a second edge of said
3 palm-sized body of said mobile client device to allow different subsets of said sensors to
~~4 be primarily relied upon for sensing data for different potential hand holding manners of~~
5 said mobile client device.

1 19. (No change) The mobile client device of claim 17, wherein said means comprises
2 means to compare sensing data being received from said sensors against a plurality of
3 reference sensing data profiles.

1 20. (No change) The mobile client device of claim 17, wherein said means comprises
2 means to select a set of weights to be applied to normalize sensing data received from
3 said sensors.

1 21. (New) A mobile client device comprising:

2 a palm-sized body;

3 a plurality of sensors to sense and output bio-metric data of a user holding the
4 mobile client device with one of the user's hands, with the sensors being distributively
5 disposed at a plurality of locations of the palm-sized body to facilitate having at least a
6 subset of said sensors to be in contact with the holder user's holding hand including at
7 least one of the holding hand's finger and palm; and

8 means disposed within said palm-sized body and coupled to the sensors to infer
9 a manner the mobile client device is being held by one of the user's hands, as
10 characterized by the sensor contact configuration of the holding hand's finger/palm, and
11 to generate measurement of at least one bio-metric of the user using a subset of the
12 bio-metric data output by said sensors, based at least in part on the inferred hand
13 holding manner characterized by the sensor contact configuration of the holding hand's
14 finger/palm.